

Commonwealth of Kentucky
Division for Air Quality
PERMIT STATEMENT OF BASIS

Title V draft permit, No. V-98-018
GE INDUSTRIAL CONTROL SYSTEMS - OWENSBORO MOTORS PLANT

Owensboro, Kentucky 42303
May 10, 2000
Completed by: Christina A. Forgacs

Plant I.D.# : 077-0920-0071
Application Log# : F443

SOURCE DESCRIPTION, CONTROL EQUIPMENTS & CONSTRUCTION DATE:

ELECTRIC MOTOR MANUFACTURING PLANT CONSISTING OF THE FOLLOWING EMISSION UNITS:

- E. Unit 01 (VO-1): 300 line polyester resin application to motor stators: equipment includes (02-6A) - 300 line polyester varnish dip tank, and (06-7) 300 line polyester varnish bake oven, (41) 300 line rework oven; construction commenced August 1, 1977.
- E. Unit 02 (VO-2): 400/500 line polyester resin application to motor stators: equipment includes (02-6B) 400/500 line polyester varnish dip tank, (06-8) 400/500 line polyester varnish bake oven, and (06-8A) 400/500 line polyester varnish bake oven, (6-10) east rework oven, (10-22) west rework oven; construction commenced August 1, 1977.
- E. Unit 03 (VO-3): 400/500 line epoxy resin application to motor stators: equipment includes (02-6C) 500 line epoxy varnish dip tank, (10-20) 500 line epoxy varnish bake oven, (10-21) 500 line epoxy varnish bake oven, and 500 line epoxy rework oven; construction commenced 1979.
- E. Unit 05 (04-3A), (04-3B): Two spray paint booths with disposable dry filters: equipment includes (04-3A) 300 line spray paint booth with application of coatings and solvents, equipped with disposable dry filters for particulates control, and (04-3B) 400/500 line spray paint booth with application of coatings and solvents, equipped with disposable dry filters for particulates control; construction commenced 1977.
- E. Unit 07 (04-4): Spray paint booth with disposable filters- modification shop booth (04-4) with application of coatings and solvents, equipped with disposable dry filters for particulates control; construction commenced 1990.
- E. Unit 09 (GPA-01): Glyptal coating and miscellaneous coating operations for motor rotors, motor stators, and other motor areas: equipment includes mixing stations, four application stations for glyptal paints and solvents applied to motor rotors, motor stators, and other motor areas, and miscellaneous touchup and maintenance painting; construction commenced in 1977.

REGULATION APPLICABILITY:

All the applicable regulations to the emission units are listed in the permit. The following regulations are not applicable based on the applicability of the regulations, applicability dates, and/or commencement dates:

Regulations not applicable to Unit 01 (VO-1), Unit 02 (VO-2), Unit 03 (VO-3), Unit 05 (04-3A, 04-3B), Unit 09 (GPA-01):

Regulation 401 KAR 59:225, New miscellaneous metal parts and products surface coating operations, due to applicability dates and source is minor for VOC and located in an attainment area.

Regulation 401 KAR 60:460, Standards of performance for metal coil surface coating, incorporating 40 CFR 60 Subpart TT, due to applicability date and definition of metal coil surface coating operation.

Regulation 401 KAR 60:390, Standards of performance for automobile and light-duty truck surface coating operations, incorporating 40 CFR 60, Subpart MM, due to applicability, applicability dates, and designation of affected facility. The units are not located at automobile or light-duty truck assembly plant.

Regulation 401 KAR 61:090, Existing automobile and light-duty truck surface coating operations, due to definition of affected facility. Units are not part of assembly plant.

Regulation 401 KAR 61:132, Existing miscellaneous metal parts and products surface coating operations, due to applicability provisions in Section 2, because Daviess County is attainment for ozone pursuant to 401 KAR 50:010.

Regulations not applicable to Unit 07 (04-4):

Regulation 401 KAR 59:225, New miscellaneous metal parts and products surface coating operations, because the source is neither major for VOC, nor located in an ozone nonattainment area.

Regulation 401 KAR 60:460, Standards of performance for metal coil surface coating, incorporating 40 CFR 60 Subpart TT, due to definition of metal coil surface coating of a continuous metal strip with thickness of 0.15 mm or more packaged in a roll. Coating at 04-4 is of a motor part not a strip packaged in a roll or coil.

Regulation 401 KAR 60:390, Standards of performance for automobile and light-duty truck surface coating operations, incorporating 40 CFR 60, Subpart MM, due to applicability and designation of affected facility. The unit is not located at automobile or light-duty truck assembly plant.

Regulation 401 KAR 61:090, Existing automobile and light-duty truck surface coating operations, due to definition of affected facility and applicability dates. Units are not part of assembly plant.

Regulations not applicable to Unit 07 (04-4) continued:

Regulation 401 KAR 61:132, Existing miscellaneous metal parts and products surface coating operations, due to applicability provisions in Section 2, because Daviess County is attainment for ozone pursuant to 401 KAR 50:010 and unit commenced in 1990.

Regulation 401 KAR 61:060, Existing sources using organic solvents for units located in a priority III region which commenced before June 29, 1979, due to applicability dates.

COMMENTS:

- The permittee has not proposed any alternate operating scenario for any of the emission units.
- This permit proposes limits on volatile organic compounds for applicable emissions units based on 401 KAR 61:060.
- The permittee will be required, for emissions units 01 (VO-1), 02 (VO-2), 03 (VO-3), 05 (04-3A, 04-3B), 09 (GPA-01), to assure compliance with the volatile organic compound emission limitations by use of recordkeeping and material balance calculations.
- The permittee will be required for emissions units 05 (04-3A, 04-3B) and 07 (04-4) which have a particulate emission limitation pursuant to 401 KAR 59:010, to assure compliance with the limitation by material balance calculation using transfer efficiency, and disposable filters manufacturer's guarantee efficiency. Also, the permittee will be required to perform a qualitative visual observation of the opacity of emissions from each stack on a weekly basis and maintain a log of the observations. If visible emissions are perceived or believed to exceed the applicable standard, the permittee shall determine opacity by Method 9 and instigate an inspection of the control equipment making necessary repairs.
- The source is estimated to be a minimal source of particulate emissions.
- Fugitive emissions of unit 09 (GPA-01), are subject to Regulation 401 KAR 63:010, and the permittee may assure compliance by use of precautions and/or control measures required by the regulation.